



1653

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/549,463A

DATE: 04/23/2002

TIME: 15:22:38

Input Set : N:\Crf3\Refhold\I549463A.raw

Output Set: N:\CRF3\04232002\I549463A.raw

C--> 1 <110> APPLICANT: Hatteboer, Guus  
2 Verhulst, Karine Cornelia  
3 Schouten, Govert Johan  
4 Uytdehaag, Alphonsus Gerardus Cornelis Maria  
5 Bout, Abraham  
6 <120> TITLE OF INVENTION: RECOMBINANT PROTEIN PRODUCTION IN A HUMAN CELL  
7 <130> FILE REFERENCE: 4038.1US  
8 <140> CURRENT APPLICATION NUMBER: US/09/549,463A  
9 <141> CURRENT FILING DATE: 2000-04-14  
10 <150> PRIOR APPLICATION NUMBER: 06/129,452  
11 <151> PRIOR FILING DATE: 1999-04-15  
12 <160> NUMBER OF SEQ ID NOS: 32  
13 <170> SOFTWARE: PatentIn version 3.1  
14 <210> SEQ ID NO: 1  
15 <211> LENGTH: 41  
16 <212> TYPE: DNA  
17 <213> ORGANISM: Artificial Sequence  
18 <220> FEATURE:  
19 <223> OTHER INFORMATION: PCR Primer-DHFR up, synthesized sequence  
20 <400> SEQUENCE: 1  
21 gatccacgtg agatctccac catggttggt tcgctaaact g 41  
22 <210> SEQ ID NO: 2  
23 <211> LENGTH: 37  
24 <212> TYPE: DNA  
25 <213> ORGANISM: Artificial Sequence  
26 <220> FEATURE:  
27 <223> OTHER INFORMATION: PCR Primer-DHFR down, synthesized sequence  
28 <400> SEQUENCE: 2  
29 gatccacgtg agatctttaa tcattcttct catatac 37  
30 <210> SEQ ID NO: 3  
31 <211> LENGTH: 85  
32 <212> TYPE: DNA  
33 <213> ORGANISM: Artificial Sequence  
34 <220> FEATURE:  
35 <223> OTHER INFORMATION: polylinker fragment, synthesized sequence, restriction  
fragment from  
36 digestion of pIPspAdapt 6 with AgeI and Bam HI  
37 <400> SEQUENCE: 3  
38 accggtgaat tcggcgcgcc gtcgacgata tcgatcggac cgacgcgttc gcgagcggcc 60  
39 gcaattcgct agcgtaacg gatcc 85  
40 <210> SEQ ID NO: 4  
41 <211> LENGTH: 86  
42 <212> TYPE: DNA  
43 <213> ORGANISM: Artificial Sequence

ENTERED

## RAW SEQUENCE LISTING

DATE: 04/23/2002

PATENT APPLICATION: US/09/549,463A

TIME: 15:22:38

Input Set : N:\Crif3\Refhold\I549463A.raw

Output Set: N:\CRF3\04232002\I549463A.raw

```

48 <220> FEATURE:
49 <223> OTHER INFORMATION: polylinker fragment, synthesized sequence, restriction
fragment from
50     digestion of pIPspAdapt7 with AgeI and Bam HI
51 <400> SEQUENCE: 4
52     accggtgaat tgcggccgct cgcgaacgcg tcggtccgta tcgatatcgt cgacggcgcg      60
53     ccgaattcgc tagcgtaaac ggatcc                                           86
55 <210> SEQ ID NO: 5
56 <211> LENGTH: 43
57 <212> TYPE: DNA
58 <213> ORGANISM: Artificial Sequence
59 <220> FEATURE:
60 <223> OTHER INFORMATION: PCR Primer-EPO-START, synthesized sequence
61 <400> SEQUENCE: 5
62     aaaaaggatc cgccaccatg ggggtgcacg aatgtcctgc ctg                        43
64 <210> SEQ ID NO: 6
65 <211> LENGTH: 38
66 <212> TYPE: DNA
67 <213> ORGANISM: Artificial Sequence
68 <220> FEATURE:
69 <223> OTHER INFORMATION: PCR Primer-EPO-STOP, synthesized sequence
70 <400> SEQUENCE: 6
71     aaaaaggatc ctcatctgct cctgtcctg caggcctc                             38
73 <210> SEQ ID NO: 7
74 <211> LENGTH: 47
75 <212> TYPE: DNA
76 <213> ORGANISM: Artificial Sequence
77 <220> FEATURE:
78 <223> OTHER INFORMATION: PCR Primer-LTR-1, synthesized sequence
79 <400> SEQUENCE: 7
80     ctgtacgtac cagtgcactg gcctagggcat ggaaaaatac ataactg                 47
82 <210> SEQ ID NO: 8
83 <211> LENGTH: 64
84 <212> TYPE: DNA
85 <213> ORGANISM: Artificial Sequence
86 <220> FEATURE:
87 <223> OTHER INFORMATION: PCR Primer-LTR-2, synthesized sequence
88 <400> SEQUENCE: 8
89     gcggatcctt cgaaccatgg taagcttggg accgctagcg ttaaccgggc gactcagtca      60
90     atcg                                                                64
92 <210> SEQ ID NO: 9
93 <211> LENGTH: 28
94 <212> TYPE: DNA
95 <213> ORGANISM: Artificial Sequence
96 <220> FEATURE:
97 <223> OTHER INFORMATION: PCR Primer-HSA1, synthesized sequence
98 <400> SEQUENCE: 9
99     gcgccaccat gggcagagcg atggtggc                                         28
101 <210> SEQ ID NO: 10
102 <211> LENGTH: 50

```

## RAW SEQUENCE LISTING

DATE: 04/23/2002

PATENT APPLICATION: US/09/549,463A

TIME: 15:22:38

Input Set : N:\Crf3\Refhold\I549463A.raw

Output Set: N:\CRF3\04232002\I549463A.raw

```

103 <212> TYPE: DNA
104 <213> ORGANISM: Artificial Sequence
105 <220> FEATURE:
106 <223> OTHER INFORMATION: PCR Primer-HSA2, synthesized sequence
107 <400> SEQUENCE: 10
108      gttagatcta agcttgctga catcgatcta ctaacagtag agatgtagaa      50
110 <210> SEQ ID NO: 11
111 <211> LENGTH: 10
112 <212> TYPE: DNA
113 <213> ORGANISM: Artificial Sequence
114 <220> FEATURE:
115 <223> OTHER INFORMATION: Oligonucleotide, synthesized sequence, EcoRI linker
116 <400> SEQUENCE: 11
117      ttaagtcgac      10
119 <210> SEQ ID NO: 12
120 <211> LENGTH: 10
121 <212> TYPE: DNA
122 <213> ORGANISM: Artificial Sequence
123 <220> FEATURE:
124 <223> OTHER INFORMATION: oligonucleotide, synthesized sequence, EcoRI linker
125 <400> SEQUENCE: 12
126      ttaagtcgac      10
128 <210> SEQ ID NO: 13
129 <211> LENGTH: 23
130 <212> TYPE: DNA
131 <213> ORGANISM: Artificial Sequence
132 <220> FEATURE:
133 <223> OTHER INFORMATION: oligonucleotide, synthesized sequence, PacI linker
134 <400> SEQUENCE: 13
135      aattgtctta attaacgct taa      23
137 <210> SEQ ID NO: 14
138 <211> LENGTH: 67
139 <212> TYPE: DNA
140 <213> ORGANISM: Artificial Sequence
141 <220> FEATURE:
142 <223> OTHER INFORMATION: oligonucleotide, synthesized sequence, PLL-1
143 <400> SEQUENCE: 14
144      gccatcccta ggaagcttgg taccggtgaa ttgcgtagcg ttaacggatc ctctagacga      60
145      gatctgg      67
147 <210> SEQ ID NO: 15
148 <211> LENGTH: 67
149 <212> TYPE: DNA
150 <213> ORGANISM: Artificial Sequence
151 <220> FEATURE:
152 <223> OTHER INFORMATION: oligonucleotide, synthesized sequence, PLL-2
153 <400> SEQUENCE: 15
154      ccagatctcg tctagaggat ccgttaacgc tagcgaattc accggtacca agcttcttag      60
155      ggatggc      67
157 <210> SEQ ID NO: 16

```

## RAW SEQUENCE LISTING

DATE: 04/23/2002

PATENT APPLICATION: US/09/549,463A

TIME: 15:22:38

Input Set : N:\Crf3\Refhold\I549463A.raw

Output Set: N:\CRF3\04232002\I549463A.raw

```

158 <211> LENGTH: 39
159 <212> TYPE: DNA
160 <213> ORGANISM: Artificial Sequence
161 <220> FEATURE:
162 <223> OTHER INFORMATION: PCR Primer-CMVplus, synthesized sequence
163 <400> SEQUENCE: 16
164     gatcgggtacc actgcagtgg tcaatattgg ccattagcc           39
166 <210> SEQ ID NO: 17
167 <211> LENGTH: 29
168 <212> TYPE: DNA
169 <213> ORGANISM: Artificial Sequence
170 <220> FEATURE:
171 <223> OTHER INFORMATION: PCR Primer-CMVminA, synthesized sequence
172 <400> SEQUENCE: 17
173     gatcaagctt ccaatgcacc gttcccggc           29
175 <210> SEQ ID NO: 18
176 <211> LENGTH: 34
177 <212> TYPE: DNA
178 <213> ORGANISM: Artificial Sequence
179 <220> FEATURE:
180 <223> OTHER INFORMATION: PCR Primer-CAMH-UP, synthesized sequence
181 <400> SEQUENCE: 18
182     gatcgatata gctagcacca agggcccatc ggtc           34
184 <210> SEQ ID NO: 19
185 <211> LENGTH: 30
186 <212> TYPE: DNA
187 <213> ORGANISM: Artificial Sequence
188 <220> FEATURE:
189 <223> OTHER INFORMATION: PCR Primer-CAMH-DOWN, synthesized sequence
190 <400> SEQUENCE: 19
191     gatcgtttaa actcatttac ccggagacag           30
193 <210> SEQ ID NO: 20
194 <211> LENGTH: 28
195 <212> TYPE: DNA
196 <213> ORGANISM: Artificial Sequence
197 <220> FEATURE:
198 <223> OTHER INFORMATION: PCR Primer-CAML-UP, synthesized sequence
199 <400> SEQUENCE: 20
200     gatccgtacg gtggctgcac catctgtc           28
202 <210> SEQ ID NO: 21
203 <211> LENGTH: 31
204 <212> TYPE: DNA
205 <213> ORGANISM: Artificial Sequence
206 <220> FEATURE:
207 <223> OTHER INFORMATION: PCR Primer-CAML-DOWN, synthesized sequence
208 <400> SEQUENCE: 21
209     gatcgtttaa acctaacact ctcccctgtt g           31
211 <210> SEQ ID NO: 22
212 <211> LENGTH: 20

```

## RAW SEQUENCE LISTING

DATE: 04/23/2002

PATENT APPLICATION: US/09/549,463A

TIME: 15:22:38

Input Set : N:\Crif3\Refhold\I549463A.raw

Output Set: N:\CRF3\04232002\I549463A.raw

```

213 <212> TYPE: PRT
214 <213> ORGANISM: Artificial Sequence
215 <220> FEATURE:
216 <223> OTHER INFORMATION: leader peptide sequence, synthesized sequence
217 <400> SEQUENCE: 22
218      Met Ala Cys Pro Gly Phe Leu Trp Ala Leu Val Ile Ser Thr Cys Leu
219      1              5              10              15
220      Glu Phe Ser Met
221              20
223 <210> SEQ ID NO: 23
224 <211> LENGTH: 60
225 <212> TYPE: DNA
226 <213> ORGANISM: Artificial Sequence
227 <220> FEATURE:
228 <223> OTHER INFORMATION: oligonucleotide-leader peptide coding sequence, synthesized
sequence
229 <400> SEQUENCE: 23
230      atggcatgcc ctggcttctt gtgggcactt gtgatctcca cctgtcttga attttccatg      60
232 <210> SEQ ID NO: 24
233 <211> LENGTH: 38
234 <212> TYPE: DNA
235 <213> ORGANISM: Artificial Sequence
236 <220> FEATURE:
237 <223> OTHER INFORMATION: PCR Primer-UBS-UP, synthesized sequence
238 <400> SEQUENCE: 24
239      gatcacgcgt gctagccacc atggcatgcc ctggcttc      38
241 <210> SEQ ID NO: 25
242 <211> LENGTH: 20
243 <212> TYPE: PRT
244 <213> ORGANISM: Artificial Sequence
245 <220> FEATURE:
246 <223> OTHER INFORMATION: leader peptide, synthesized sequence
247 <400> SEQUENCE: 25
248      Met Ala Cys Pro Gly Phe Leu Trp Ala Leu Val Ile Ser Thr Cys Leu
249      1              5              10              15
250      Glu Phe Ser Met
251              20
253 <210> SEQ ID NO: 26
254 <211> LENGTH: 60
255 <212> TYPE: DNA
256 <213> ORGANISM: Artificial Sequence
257 <220> FEATURE:
258 <223> OTHER INFORMATION: oligonucleotide-leader peptide coding sequence, synthesized
sequence
259 <400> SEQUENCE: 26
260      atggcatgcc ctggcttctt gtgggcactt gtgatctcca cctgtcttga attttccatg      60
262 <210> SEQ ID NO: 27
263 <211> LENGTH: 28
264 <212> TYPE: DNA
265 <213> ORGANISM: Artificial Sequence
266 <220> FEATURE:

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/549,463A

DATE: 04/23/2002  
TIME: 15:22:39

Input Set : N:\Crf3\Refhold\I549463A.raw  
Output Set: N:\CRF3\04232002\I549463A.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:3; Line(s) 38  
Seq#:4; Line(s) 49  
Seq#:23; Line(s) 228  
Seq#:26; Line(s) 258  
Seq#:27; Line(s) 267  
Seq#:28; Line(s) 277

**VERIFICATION SUMMARY**

DATE: 04/23/2002

PATENT APPLICATION: US/09/549,463A

TIME: 15:22:39

Input Set : N:\Crf3\Refhold\I549463A.raw

Output Set: N:\CRF3\04232002\I549463A.raw

L:8 M:270 C: Current Application Number differs, Wrong Format